

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/724,274A

Source: FW16

Date Processed by STIC: 11/1/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/724,274A

CRF Edit Date: 11/1/06
Edited by: [Signature]

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

J Other: corrected 2137 response - sequences 2-3



IFW16

RAW SEQUENCE LISTING

DATE: 11/01/2006

PATENT APPLICATION: US/10/724,274A

TIME: 17:36:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11012006\J724274A.raw

3 <110> APPLICANT: Protein Design Labs, Inc.
 4 Ramakrishnan, Vanitha
 5 Powers, David
 6 Johnson, Dale E
 7 Jeffry, Ursula
 8 Bhaskar, Vinay
 10 <120> TITLE OF INVENTION: Chimeric and Humanized Antibodies to alpha5beta1 Integrin
 That
 11 Modulate Angiogenesis
 13 <130> FILE REFERENCE: 05882.0178.NPUS01
 15 <140> CURRENT APPLICATION NUMBER: 10/724,274A
 16 <141> CURRENT FILING DATE: 2003-11-26
 18 <150> PRIOR APPLICATION NUMBER: 60/429,743
 19 <151> PRIOR FILING DATE: 2002-11-26
 21 <150> PRIOR APPLICATION NUMBER: 60/508,149
 22 <151> PRIOR FILING DATE: 2003-09-30
 24 <160> NUMBER OF SEQ ID NOS: 47
 26 <170> SOFTWARE: PatentIn version 3.2
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 124
 30 <212> TYPE: PRT
 31 <213> ORGANISM: mus musculus
 33 <400> SEQUENCE: 1
 35 Gln Val Gln Leu Lys Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln
 36 1 5 10 15
 39 Ser Leu Ser Ile Thr Cys Thr Ile Ser Gly Phe Ser Leu Thr Asp Tyr
 40 20 25 30
 43 Gly Val His Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu
 44 35 40 45
 47 Val Val Ile Trp Ser Asp Gly Ser Ser Thr Tyr Asn Ser Ala Leu Lys
 48 50 55 60
 51 Ser Arg Met Thr Ile Arg Lys Asp Asn Ser Lys Ser Gln Val Phe Leu
 52 65 70 75 80
 55 Ile Met Asn Ser Leu Gln Thr Asp Asp Ser Ala Met Tyr Tyr Cys Ala
 56 85 90 95
 59 Arg His Gly Thr Tyr Tyr Gly Met Thr Thr Thr Gly Asp Ala Leu Asp
 60 100 105 110
 63 Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
 64 115 120
 67 <210> SEQ ID NO: 2
 68 <211> LENGTH: 124
 69 <212> TYPE: PRT
 70 <213> ORGANISM: Artificial Sequence
 72 <220> FEATURE:

RAW SEQUENCE LISTING

DATE: 11/01/2006

PATENT APPLICATION: US/10/724,274A

TIME: 17:36:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11012006\J724274A.raw

73 <223> OTHER INFORMATION: humanized antibody

75 <400> SEQUENCE: 2

77 Gln Val Gln Leu Val Glu Ser Gly Pro Gly Leu Val Gln Pro Gly Gly

78 1 5 10 15

81 Ser Leu Arg Ile Ser Cys Ala Ile Ser Gly Phe Ser Leu Thr Asp Tyr

82 20 25 30

85 Gly Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu

86 35 40 45

89 Val Val Ile Trp Ser Asp Gly Ser Ser Thr Tyr Asn Ser Ala Leu Lys

90 50 55 60

93 Ser Arg Met Thr Ile Ser Lys Asp Asn Ser Lys Ser Thr Val Tyr Leu

94 65 70 75 80

97 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Met Tyr Tyr Cys Ala

98 85 90 95

101 Arg His Gly Thr Tyr Tyr Gly Met Thr Thr Thr Gly Asp Ala Leu Asp

102 100 105 110

105 Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser

106 115 120

109 <210> SEQ ID NO: 3

110 <211> LENGTH: 124

111 <212> TYPE: PRT

112 <213> ORGANISM: Artificial Sequence

114 <220> FEATURE:

115 <223> OTHER INFORMATION: humanized antibody

117 <400> SEQUENCE: 3

119 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

120 1 5 10 15

123 Ser Leu Arg Ile Ser Cys Ala Ile Ser Gly Phe Ser Leu Thr Asp Tyr

124 20 25 30

127 Gly Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu

128 35 40 45

131 Val Val Ile Trp Ser Asp Gly Ser Ser Thr Tyr Asn Ser Ala Leu Lys

132 50 55 60

135 Ser Arg Met Thr Ile Ser Lys Asp Asn Ser Lys Asn Thr Val Tyr Leu

136 65 70 75 80

139 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala

140 85 90 95

143 Arg His Gly Thr Tyr Tyr Gly Met Thr Thr Thr Gly Asp Ala Leu Asp

144 100 105 110

147 Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser

148 115 120

151 <210> SEQ ID NO: 4

152 <211> LENGTH: 124

153 <212> TYPE: PRT

154 <213> ORGANISM: Artificial Sequence

156 <220> FEATURE:

157 <223> OTHER INFORMATION: humanized antibody

159 <400> SEQUENCE: 4

161 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

RAW SEQUENCE LISTING

DATE: 11/01/2006

PATENT APPLICATION: US/10/724,274A

TIME: 17:36:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11012006\J724274A.raw

```

162 1          5          10          15
165 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu Thr Asp Tyr
166          20          25          30
169 Gly Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
170          35          40          45
173 Ser Val Ile Trp Ser Asp Gly Ser Ser Thr Tyr Asn Ser Ala Leu Lys
174          50          55          60
177 Ser Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
178 65          70          75          80
181 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
182          85          90          95
185 Arg His Gly Thr Tyr Tyr Gly Met Thr Thr Thr Gly Asp Ala Leu Asp
186          100          105          110
189 Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
190          115          120
193 <210> SEQ ID NO: 5
194 <211> LENGTH: 124
195 <212> TYPE: PRT
196 <213> ORGANISM: Artificial Sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: humanized antibody
201 <400> SEQUENCE: 5
203 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
204 1          5          10          15
207 Ser Leu Arg Leu Ser Cys Ala Ile Ser Gly Phe Ser Leu Thr Asp Tyr
208          20          25          30
211 Gly Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
212          35          40          45
215 Val Val Ile Trp Ser Asp Gly Ser Ser Thr Tyr Asn Ser Ala Leu Lys
216          50          55          60
219 Ser Arg Met Thr Ile Ser Lys Asp Asn Ser Lys Ser Thr Val Tyr Leu
220 65          70          75          80
223 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
224          85          90          95
227 Arg His Gly Thr Tyr Tyr Gly Met Thr Thr Thr Gly Asp Ala Leu Asp
228          100          105          110
231 Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
232          115          120
235 <210> SEQ ID NO: 6
236 <211> LENGTH: 124
237 <212> TYPE: PRT
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: humanized antibody
243 <400> SEQUENCE: 6
245 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
246 1          5          10          15
249 Ser Leu Arg Ile Ser Cys Ala Ile Ser Gly Phe Ser Leu Thr Asp Tyr
250          20          25          30

```

RAW SEQUENCE LISTING

DATE: 11/01/2006

PATENT APPLICATION: US/10/724,274A

TIME: 17:36:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11012006\J724274A.raw

```

253 Gly Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
254           35           40           45
257 Val Val Ile Trp Ser Asp Gly Ser Ser Thr Tyr Asn Ser Ala Leu Lys
258           50           55           60
261 Ser Arg Met Thr Ile Ser Lys Asp Asn Ser Lys Ser Thr Val Tyr Leu
262 65           70           75           80
265 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Met Tyr Tyr Cys Ala
266           85           90           95
269 Arg His Gly Thr Tyr Tyr Gly Met Thr Thr Thr Gly Asp Ala Leu Asp
270           100          105          110
273 Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
274           115          120
277 <210> SEQ ID NO: 7
278 <211> LENGTH: 109
279 <212> TYPE: PRT
280 <213> ORGANISM: mus musculus
282 <400> SEQUENCE: 7
284 Gln Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Leu Gly
285 1           5           10           15
288 Glu Arg Val Thr Met Thr Cys Thr Ala Ser Ser Ser Val Ser Ser Asn
289           20           25           30
292 Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Ser Ala Pro Asn Leu Trp
293           35           40           45
296 Ile Tyr Ser Thr Ser Asn Leu Ala Ser Gly Val Pro Ala Arg Phe Ser
297           50           55           60
300 Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu
301 65           70           75           80
304 Ala Glu Asp Ala Ala Thr Tyr Tyr Cys His Gln Tyr Leu Arg Ser Pro
305           85           90           95
308 Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg
309           100          105
312 <210> SEQ ID NO: 8
313 <211> LENGTH: 109
314 <212> TYPE: PRT
315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:
318 <223> OTHER INFORMATION: humanized antibody
320 <400> SEQUENCE: 8
322 Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Met Ser Ala Ser Leu Gly
323 1           5           10           15
326 Asp Arg Val Thr Met Thr Cys Thr Ala Ser Ser Ser Val Ser Ser Asn
327           20           25           30
330 Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asn Leu Trp
331           35           40           45
334 Ile Tyr Ser Thr Ser Asn Leu Ala Ser Gly Val Pro Ser Arg Phe Ser
335           50           55           60
338 Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Met Gln
339 65           70           75           80
342 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys His Gln Tyr Leu Arg Ser Pro

```

RAW SEQUENCE LISTING

DATE: 11/01/2006

PATENT APPLICATION: US/10/724,274A

TIME: 17:36:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11012006\J724274A.raw

```

343          85          90          95
346 Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
347          100          105
350 <210> SEQ ID NO: 9
351 <211> LENGTH: 109
352 <212> TYPE: PRT
353 <213> ORGANISM: Artificial Sequence
355 <220> FEATURE:
356 <223> OTHER INFORMATION: humanized antibody
358 <400> SEQUENCE: 9
360 Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
361 1          5          10          15
364 Asp Arg Val Thr Met Thr Cys Thr Ala Ser Ser Ser Val Ser Ser Asn
365          20          25          30
368 Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Trp
369          35          40          45
372 Ile Tyr Ser Thr Ser Asn Leu Ala Ser Gly Val Pro Ser Arg Phe Ser
373          50          55          60
376 Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Met Gln
377 65          70          75          80
380 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys His Gln Tyr Leu Arg Ser Pro
381          85          90          95
384 Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
385          100          105
388 <210> SEQ ID NO: 10
389 <211> LENGTH: 109
390 <212> TYPE: PRT
391 <213> ORGANISM: Artificial Sequence
393 <220> FEATURE:
394 <223> OTHER INFORMATION: humanized antibody
396 <400> SEQUENCE: 10
398 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
399 1          5          10          15
402 Asp Arg Val Thr Ile Thr Cys Thr Ala Ser Ser Ser Val Ser Ser Asn
403          20          25          30
406 Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
407          35          40          45
410 Ile Tyr Ser Thr Ser Asn Leu Ala Ser Gly Val Pro Ser Arg Phe Ser
411          50          55          60
414 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
415 65          70          75          80
418 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys His Gln Tyr Leu Arg Ser Pro
419          85          90          95
422 Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
423          100          105
426 <210> SEQ ID NO: 11
427 <211> LENGTH: 109
428 <212> TYPE: PRT
429 <213> ORGANISM: Artificial Sequence

```

VERIFICATION SUMMARY

PATENT APPLICATION: **US/10/724,274A**

DATE: 11/01/2006

TIME: 17:36:12

Input Set : **A:\PTO.AMC.txt**

Output Set: **N:\CRF4\11012006\J724274A.raw**

**Raw Sequence Listing before editing
(for reference only)**



IFW16

RAW SEQUENCE LISTING

DATE: 11/01/2006

PATENT APPLICATION: US/10/724,274A

TIME: 12:11:39

Input Set : A:\05882.0178.NPUS01.ST25.txt

Output Set: N:\CRF4\11012006\J724274A.raw

3 <110> APPLICANT: Protein Design Labs, Inc.
 4 Ramakrishnan, Vanitha
 5 Powers, David
 6 Johnson, Dale E
 7 Jeffry, Ursula
 8 Bhaskar, Vinay
 10 <120> TITLE OF INVENTION: Chimeric and Humanized Antibodies to alpha5beta1 Integrin
 That
 11 Modulate Angiogenesis
 13 <130> FILE REFERENCE: 05882.0178.NPUS01
 15 <140> CURRENT APPLICATION NUMBER: 10/724,274A
 16 <141> CURRENT FILING DATE: 2003-11-26
 18 <150> PRIOR APPLICATION NUMBER: 60/429,743
 19 <151> PRIOR FILING DATE: 2002-11-26
 21 <150> PRIOR APPLICATION NUMBER: 60/508,149
 22 <151> PRIOR FILING DATE: 2003-09-30
 24 <160> NUMBER OF SEQ ID NOS: 47
 26 <170> SOFTWARE: PatentIn version 3.2
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 124
 30 <212> TYPE: PRT
 31 <213> ORGANISM: mus musculus
 33 <400> SEQUENCE: 1
 35 Gln Val Gln Leu Lys Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln
 36 1 5 10 15
 39 Ser Leu Ser Ile Thr Cys Thr Ile Ser Gly Phe Ser Leu Thr Asp Tyr
 40 20 25 30
 43 Gly Val His Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu
 44 35 40 45
 47 Val Val Ile Trp Ser Asp Gly Ser Ser Thr Tyr Asn Ser Ala Leu Lys
 48 50 55 60
 51 Ser Arg Met Thr Ile Arg Lys Asp Asn Ser Lys Ser Gln Val Phe Leu
 52 65 70 75 80
 55 Ile Met Asn Ser Leu Gln Thr Asp Asp Ser Ala Met Tyr Tyr Cys Ala
 56 85 90 95
 59 Arg His Gly Thr Tyr Tyr Gly Met Thr Thr Gly Asp Ala Leu Asp
 60 100 105 110
 63 Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
 64 115 120
 67 <210> SEQ ID NO: 2
 68 <211> LENGTH: 124
 69 <212> TYPE: PRT
 70 <213> ORGANISM: Artificial Sequence
 72 <220> FEATURE:

*Does Not Comply
Corrected Diskette Needed*

delete

RAW SEQUENCE LISTING

DATE: 11/01/2006

PATENT APPLICATION: US/10/724,274A

TIME: 12:11:39

Input Set : A:\05882.0178.NPUS01.ST25.txt

Output Set: N:\CRF4\11012006\J724274A.raw

73 <223> OTHER INFORMATION: humanized antibody
 75 <400> SEQUENCE: 2
 77 Gln Val Gln Leu Val Glu Ser Gly Pro Gly Leu Val Gln Pro Gly Gly
 78 1 5 10 15
 81 Ser Leu Arg Ile Ser Cys Ala Ile Ser Gly Phe Ser Leu Thr Asp Tyr
 82 20 25 30
 85 Gly Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
 86 35 40 45
 89 Val Val Ile Trp Ser Asp Gly Ser Ser Thr Tyr Asn Ser Ala Leu Lys
 90 50 55 60
 93 Ser Arg Met Thr Ile Ser Lys Asp Asn Ser Lys Ser Thr Val Tyr Leu
 94 65 70 75 80
 97 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Met Tyr Tyr Cys Ala
 98 85 90 95
 101 Arg His Gly Thr Tyr Tyr Gly Met Thr Thr Thr Gly Asp Ala Leu Asp
 102 100 105 110
 105 Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 106 115 120
 109 <210> SEQ ID NO: 3
 110 <211> LENGTH: 124
 111 <212> TYPE: PRT
 112 <213> ORGANISM: Artificial Sequence Sequence
 114 <220> FEATURE:
 115 <223> OTHER INFORMATION: humanized antibody
 117 <400> SEQUENCE: 3
 119 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 120 1 5 10 15
 123 Ser Leu Arg Ile Ser Cys Ala Ile Ser Gly Phe Ser Leu Thr Asp Tyr
 124 20 25 30
 127 Gly Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
 128 35 40 45
 131 Val Val Ile Trp Ser Asp Gly Ser Ser Thr Tyr Asn Ser Ala Leu Lys
 132 50 55 60
 135 Ser Arg Met Thr Ile Ser Lys Asp Asn Ser Lys Asn Thr Val Tyr Leu
 136 65 70 75 80
 139 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 140 85 90 95
 143 Arg His Gly Thr Tyr Tyr Gly Met Thr Thr Thr Gly Asp Ala Leu Asp
 144 100 105 110
 147 Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 148 115 120
 151 <210> SEQ ID NO: 4
 152 <211> LENGTH: 124
 153 <212> TYPE: PRT
 154 <213> ORGANISM: Artificial Sequence
 156 <220> FEATURE:
 157 <223> OTHER INFORMATION: humanized antibody
 159 <400> SEQUENCE: 4
 161 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

RAW SEQUENCE LISTING

DATE: 11/01/2006

PATENT APPLICATION: US/10/724,274A

TIME: 12:11:39

Input Set : A:\05882.0178.NPUS01.ST25.txt

Output Set: N:\CRF4\11012006\J724274A.raw

```

162 1          5          10          15
165 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu Thr Asp Tyr
166          20          25          30
169 Gly Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
170          35          40          45
173 Ser Val Ile Trp Ser Asp Gly Ser Ser Thr Tyr Asn Ser Ala Leu Lys
174          50          55          60
177 Ser Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
178 65          70          75          80
181 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
182          85          90          95
185 Arg His Gly Thr Tyr Tyr Gly Met Thr Thr Thr Gly Asp Ala Leu Asp
186          100          105          110
189 Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
190          115          120
193 <210> SEQ ID NO: 5
194 <211> LENGTH: 124
195 <212> TYPE: PRT
196 <213> ORGANISM: Artificial Sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: humanized antibody
201 <400> SEQUENCE: 5
203 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
204 1          5          10          15
207 Ser Leu Arg Leu Ser Cys Ala Ile Ser Gly Phe Ser Leu Thr Asp Tyr
208          20          25          30
211 Gly Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
212          35          40          45
215 Val Val Ile Trp Ser Asp Gly Ser Ser Thr Tyr Asn Ser Ala Leu Lys
216          50          55          60
219 Ser Arg Met Thr Ile Ser Lys Asp Asn Ser Lys Ser Thr Val Tyr Leu
220 65          70          75          80
223 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
224          85          90          95
227 Arg His Gly Thr Tyr Tyr Gly Met Thr Thr Thr Gly Asp Ala Leu Asp
228          100          105          110
231 Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
232          115          120
235 <210> SEQ ID NO: 6
236 <211> LENGTH: 124
237 <212> TYPE: PRT
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: humanized antibody
243 <400> SEQUENCE: 6
245 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
246 1          5          10          15
249 Ser Leu Arg Ile Ser Cys Ala Ile Ser Gly Phe Ser Leu Thr Asp Tyr
250          20          25          30

```

RAW SEQUENCE LISTING

DATE: 11/01/2006

PATENT APPLICATION: US/10/724,274A

TIME: 12:11:39

Input Set : A:\05882.0178.NPUS01.ST25.txt

Output Set: N:\CRF4\11012006\J724274A.raw

```

253 Gly Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
254           35           40           45
257 Val Val Ile Trp Ser Asp Gly Ser Ser Thr Tyr Asn Ser Ala Leu Lys
258           50           55           60
261 Ser Arg Met Thr Ile Ser Lys Asp Asn Ser Lys Ser Thr Val Tyr Leu
262 65           70           75           80
265 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Met Tyr Tyr Cys Ala
266           85           90           95
269 Arg His Gly Thr Tyr Tyr Gly Met Thr Thr Thr Gly Asp Ala Leu Asp
270           100          105          110
273 Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
274           115          120
277 <210> SEQ ID NO: 7
278 <211> LENGTH: 109
279 <212> TYPE: PRT
280 <213> ORGANISM: mus musculus
282 <400> SEQUENCE: 7
284 Gln Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Leu Gly
285 1           5           10           15
288 Glu Arg Val Thr Met Thr Cys Thr Ala Ser Ser Ser Val Ser Ser Asn
289           20           25           30
292 Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Ser Ala Pro Asn Leu Trp
293           35           40           45
296 Ile Tyr Ser Thr Ser Asn Leu Ala Ser Gly Val Pro Ala Arg Phe Ser
297           50           55           60
300 Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu
301 65           70           75           80
304 Ala Glu Asp Ala Ala Thr Tyr Tyr Cys His Gln Tyr Leu Arg Ser Pro
305           85           90           95
308 Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg
309           100          105
312 <210> SEQ ID NO: 8
313 <211> LENGTH: 109
314 <212> TYPE: PRT
315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:
318 <223> OTHER INFORMATION: humanized antibody
320 <400> SEQUENCE: 8
322 Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Met Ser Ala Ser Leu Gly
323 1           5           10           15
326 Asp Arg Val Thr Met Thr Cys Thr Ala Ser Ser Ser Val Ser Ser Asn
327           20           25           30
330 Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asn Leu Trp
331           35           40           45
334 Ile Tyr Ser Thr Ser Asn Leu Ala Ser Gly Val Pro Ser Arg Phe Ser
335           50           55           60
338 Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Met Gln
339 65           70           75           80
342 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys His Gln Tyr Leu Arg Ser Pro

```

RAW SEQUENCE LISTING

DATE: 11/01/2006

PATENT APPLICATION: US/10/724,274A

TIME: 12:11:39

Input Set : A:\05882.0178.NPUS01.ST25.txt

Output Set: N:\CRF4\11012006\J724274A.raw

```

343          85          90          95
346 Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
347          100          105
350 <210> SEQ ID NO: 9
351 <211> LENGTH: 109
352 <212> TYPE: PRT
353 <213> ORGANISM: Artificial Sequence
355 <220> FEATURE:
356 <223> OTHER INFORMATION: humanized antibody
358 <400> SEQUENCE: 9
360 Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
361 1          5          10          15
364 Asp Arg Val Thr Met Thr Cys Thr Ala Ser Ser Ser Val Ser Ser Asn
365          20          25          30
368 Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Trp
369          35          40          45
372 Ile Tyr Ser Thr Ser Asn Leu Ala Ser Gly Val Pro Ser Arg Phe Ser
373          50          55          60
376 Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Met Gln
377 65          70          75          80
380 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys His Gln Tyr Leu Arg Ser Pro
381          85          90          95
384 Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
385          100          105
388 <210> SEQ ID NO: 10
389 <211> LENGTH: 109
390 <212> TYPE: PRT
391 <213> ORGANISM: Artificial Sequence
393 <220> FEATURE:
394 <223> OTHER INFORMATION: humanized antibody
396 <400> SEQUENCE: 10
398 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
399 1          5          10          15
402 Asp Arg Val Thr Ile Thr Cys Thr Ala Ser Ser Ser Val Ser Ser Asn
403          20          25          30
406 Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
407          35          40          45
410 Ile Tyr Ser Thr Ser Asn Leu Ala Ser Gly Val Pro Ser Arg Phe Ser
411          50          55          60
414 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
415 65          70          75          80
418 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys His Gln Tyr Leu Arg Ser Pro
419          85          90          95
422 Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
423          100          105
426 <210> SEQ ID NO: 11
427 <211> LENGTH: 109
428 <212> TYPE: PRT
429 <213> ORGANISM: Artificial Sequence

```

VERIFICATION SUMMARY

DATE: 11/01/2006

PATENT APPLICATION: US/10/724,274A

TIME: 12:11:40

Input Set : A:\05882.0178.NPUS01.ST25.txt

Output Set: N:\CRF4\11012006\J724274A.raw